Notice of Allowability	Application No.	Applicant(s)	
	10/665,535	CAO ET AL.	
	Examiner	Art Unit	
	Thomas R. Peeso	2132	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS	Э
1. $igspace$ This communication is responsive to <u>application papers fil</u>	<u>ed</u> .		
2. The allowed claim(s) is/are 19-74 (renumbered as 1-56).		•	
<ol> <li>Acknowledgment is made of a claim for foreign priority up a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply MENT of this application.	complying with the requirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>	nitted. Note the attached EXAMINER res reason(s) why the oath or declara	A'S AMENDMENT or NOTICE OF ation is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) $\square$ including changes required by the Notice of Draftsper	son's Patent Drawing Review ( PTO	-948) attached	
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the drawi the header according to 37 CFR 1.121	ings in the front (not the back) of (d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATERIAL ( FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 20Sep2004, 23Jan2004  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other   THC	y (PTO-413), ate	

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traffic.

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**DETAILED ACTION** 

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The following is an examiner's statement of reasons for allowance: Applicant has claimed uniquely distinct features in the instant invention which are not found in the prior art, either singularly or in combination. According to the invention, in order to verify the near-optimality of the heuristic algorithms, we developed ILP formulations for optimal WBS using minimum number of ports, and compare the results with those of our heuristic algorithms. The proposed algorithms can be applied to both static and dynamic

A primary object of the invention is to support ever-increasing traffic while maintaining the cost and complexity of the system at a reasonable level.

Another object of the invention is to develop and provide efficient heuristic algorithms for port reduction in WBS networks, running much faster than IL'P schemes, yet achieving near optimal results.

A further object of the invention is to provide a huge reduction in port count while also achieving bandwidth efficiency.

Still another object of the invention is to provide more flexible and scalable MG-OXC architectures.

Still a further object of the invention is to provide novel survivability schemes for WBS networks with/without wavelength and waveband conversion.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Peeso whose telephone number is 571 272-3809. The examiner can normally be reached on Mon.-Fri, 7:00 a.m. to 3:30 p.m. The central fax number for the office is 571 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571 272-3799.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see

<a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Thomas R. Peeso Primary Examiner

3 September 2006